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Facile preparation of Pd-metal oxide/C electrocatalysts and their application in the electrocatalytic oxidation of ethanol

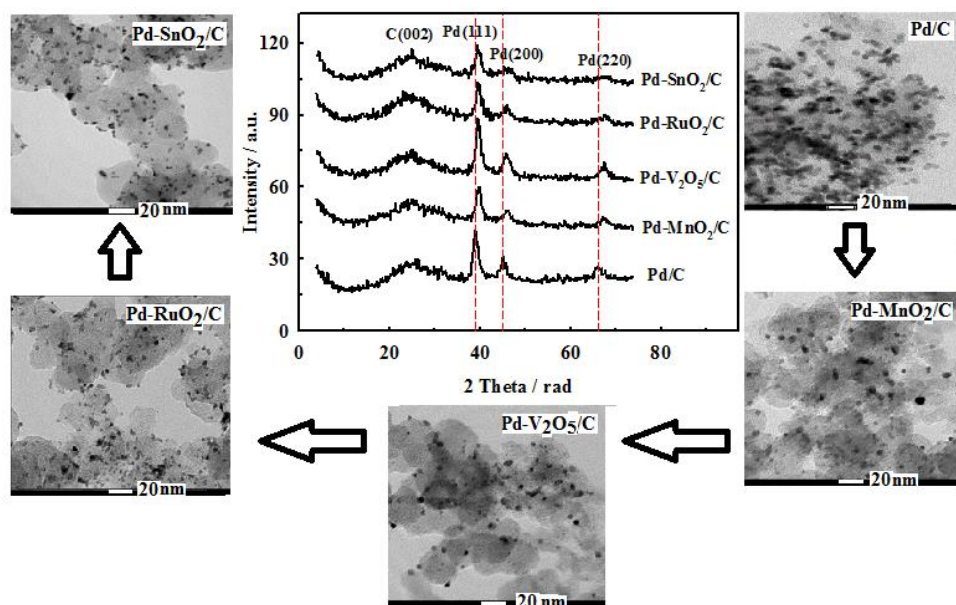
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Graphical abstract



Highlights

- A series of metal oxides was individually incorporated in Pd/C using mixed reducing agents.
- TEM images revealed better dispersion with reduced size of Pd nanoparticles.
- Enhanced ethanol oxidation current density was observed at Pd-metal oxide/C electrocatalysts.
- More stable electrocatalytic behavior was displayed by Pd–SnO₂/C when related to that of Pd/C.

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